

A liquid hydrogen bubble chamber

28432
S/185/61/006/002/004/020
D210/D304

well as being reusable. The chamber is contained in the liquid hydrogen thermostat 6 which is connected with the reservoir 7 of 41. capacity. The temperature of the thermostat is controlled with a special pressure stabilizer 8, which consists of a closed cylindrical vessel containing a small rubber tube along its diameter. The tube is part of the conduit connecting the hydrogen reservoir with a gas cylinder. Nitrogen gas, admitted to the cylinder under a certain critical pressure, restricts the flow of hydrogen through the tubing until the critical pressure is exceeded. This resulted in a pressure control better than 0.1 at. The hydrogen system is surrounded with a belt at nitrogen temperature which consists of a reservoir of liquid nitrogen 9 and a screen 10. This whole system is made of copper and it is contained in a high vacuum chamber 11 which is evacuated by means of a diffusion pump, as well as with activated charcoal 12 placed at the bottom of the screen 10. The liquid level in the hydrogen and nitrogen reservoirs is measured by means of a hydrostatic level gauge 13 filled with oil. To effect full evaporation of liquid hydrogen in the dip tube a copper

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conductor is inserted inside it. Superheating of liquid hydrogen in the chamber is achieved by reducing pressure with sylphon mechanism 14, 15. The pressure on the upper sylphon is applied through the electromagnetic valve 16 and the magnitude of movement is controlled by means of the regulator 17. A detailed description of the electromagnetic valve is given. Gaseous hydrogen purified silica gel and activated charcoal is fed to the chamber through the precooler 18 and the needle valve 19, and the pressure in the chamber is measured by the gauge 20. The authors have given a brief description of bringing the chamber into operation. The chamber was operated over a temperature range of 27 to 30°K (corresponding to a vapour pressure of 4.5 to 8 at.) and a working cycle of 2 seconds. It was found that by constant superheating, the sensitivity of the chamber increased with temperature. The sensitivity also varied with the amplitude of superheating, and it was possible to make the chamber insensitive to relativistic particles. The consumption of liquid hydrogen was 15 l. for cooling and half a liter for each hour of operation. 60 l. of liquid nitrogen was

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also required for 10 hours of operation and initial cooling. For lighting the chamber a pulse lamp 27 was used. To give a good illumination of the chamber light passed through a venetian blind 28, made of 2 mm organic glass, 10 mm wide, glued together to make an angle of 30° with the window. [Abstractor's note: The angle should probably read 60°]. There are 5 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: H.P. Hornander, I.W. Mark, R.D. Watt, Rev. Sci. Instr. 28, 528, 1957

ASSOCIATION: Fizyko-tehnichnyy instytut, AN UkrSSR, m. Kharkiv
(Technical Physics Institute, AS UkrSSR, Khar'kov)

SUBMITTED: July 1, 1960

Card 4/5

VALITER, A.K.; VATSET, P.I.; KOLESNIKOV, L.a.; TONAPETYAN, S.G.; CHERNYAVSKIY,
K.K.; SHPETNYY, A.I.

Neutron yield from Li⁶ (t, n) and Li⁷ (t, n) reactions. Atom.energ.
10 no.6:577-586 Je '61. (MIRA 14:6)
(Neutrons) (Lithium--Isotopes) (Nuclear reactions)

VATSET, P.I.; KOLESNIKOV, L.Ya.; TONAPETYAN, S.G.

Neutrons from the $\text{C}^{12}(t, n)$ reaction. Zhur. eksp. i teor. fiz.
40 no.5:1257-1260 My '61. (MIRA 14:7)

1. Fiziko-tehnicheskiy institut AN Ukrainskoy SSR.
(Neutrons). (Nuclear reactions) (Carbon—Isotopes)

7 (5), 21 (1)
AUTHORS:

Vatset, P. I., Tonapetyan, S. G.,
Dorofeyev, G. A.

EOV/89-7-2-16/24

TITLE:

A Neutron Detector Having Constant Sensitivity for Neutrons
With Energies 0.025-14 Mev (Detektor neytronov s postoyannoy
chuvstvitel'nost'yu k neytronam s energiyami ot 0.025 do 14 Mev)

PERIODICAL:

Atomnaya energiya, 1959, Vol 7, Nr 2, pp 172-174 (USSR)

ABSTRACT:

The neutron detector described in references 1 and 2, with its paraffin and boron carbide shielding is modified (Detailed sketch Fig 1). First of all the diameter of the boron counter is enlarged to 30 mm. It is filled with BF_3 (70 % B^{10}) of a 140 mm Hg pressure, the operational voltage is 1700 v and the plateau approximately 300 v. The enlargement of the diameter of the counter relatively increased the sensitivity of the counter concerning fast neutrons. The examination of the detector sensitivity was made in "good geometry". The following neutron sources were used: Sb-Be, Ra-Be, Na-D, Na-Be, $\text{T}(\text{d},\text{n})\text{He}^4$ $\text{Pc}-\alpha$ -Be, and neutron source according to ref 3. The background caused by scattered neutrons did not exceed 6 %. A 1 c strong Sb^{124} γ -source located at a 20 cm distance from the counter

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A Neutron Detector Having Constant Sensitivity for
Neutrons With Energies 0.025-14 Mev

SOV/89-7-2-16/24

did not impair the neutron sensitivity of the detector. The standard strength of the neutron preparations was known up to an accuracy of $\pm 3\%$. The measurement of the relative intensity of the mentioned neutron sources was carried out with an accuracy of $\pm 1.5\%$. The location of the counter in relation to the paraffin block is sensitive. A few curves show that the sensitivity of the counter decreases when the boron counter is put into the paraffin block. It was shown by an experiment that in a certain position there is a constant sensitivity towards neutrons of energies of 0.8-14 mev. In another position the sensitivity of the detector for neutrons of an energy between 0.025 and 5 mev is constant in the measuring accuracy range ($\pm 3\%$) and decreases by approximately 11% when the neutron energy reaches 14 mev. K. D. Sinel'nikov, A. K. Val'tor, I. V. Kurchatov and I. N. Golovin were interested in these studies and collaborated from time to time. T. I. Lyashenko and L. Ya. Kolesnikov participated in certain partial examinations. There are 3 figures and 3 references, 1 of which is Soviet.

Card 2/3

MEGROYAN, R.A.; TONAKANYAN, S.N.

Microdetermination of sulfur in organic compounds. Report No.1:
New variant of the quantitative method for the microdetermination
of sulfur in organic compounds containing C, H, O, S and C, H, ~~S~~, S.
Izv. AN Arm. SSR. Khim. nauki 15 no.1:33-37 '62. (MIRA 15:7)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy SSR.
(Sulfur organic compounds) (Sulfur--Analysis)

To N A S H E V S K I Y, V. V.

22(1) P.3

PHASE I BOOK EXPLOITATION

SOV/3138

Akademiya nauk SSSR. Dal'nevostochnyy filial imeni V.L. Komarova.

Nauka na Dal'nem Vostoke (Science in the Far East) Vladivostok, 1957. 111 p.
1,000 copies printed.

Editorial Committee: Ye.A. Boom, V.T. Bykov (Resp. Ed.), D.V. Girnik,
A.V. Stotsenko (Deputy Resp. Ed.), Z.G. Omisimova, A.A. Tavid,
P.D. Yaroshenko; Tech. Ed.: L. Kalashnikov

PURPOSE: This collection of articles is intended for the general reader interested in the status of scientific studies and research in the Soviet Far East.

COVERAGE: These articles review scientific achievements which have contributed to the economic development of the Soviet Far East. The creation of the first university in the Far East and of the Far East Branch of the Academy of Science is discussed. Studies in the history, geology, geophysics, chemistry, biology, and economics of the region are discussed and a great number of scientists and their contributions mentioned. Stress is laid on the progress of the geological survey carried out in the southern part of the Far East and the consequent

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Science in the Far East

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discovery of coal, silver, lead, gold and petroleum. In addition to studies of the subsurface wealth, works on the vegetation and forest are also presented. Numerous references are incorporated in the text.

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AVAILABLE: Library of Congress (Q180.R9A55)	

Card 3/3

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TONAY, F.

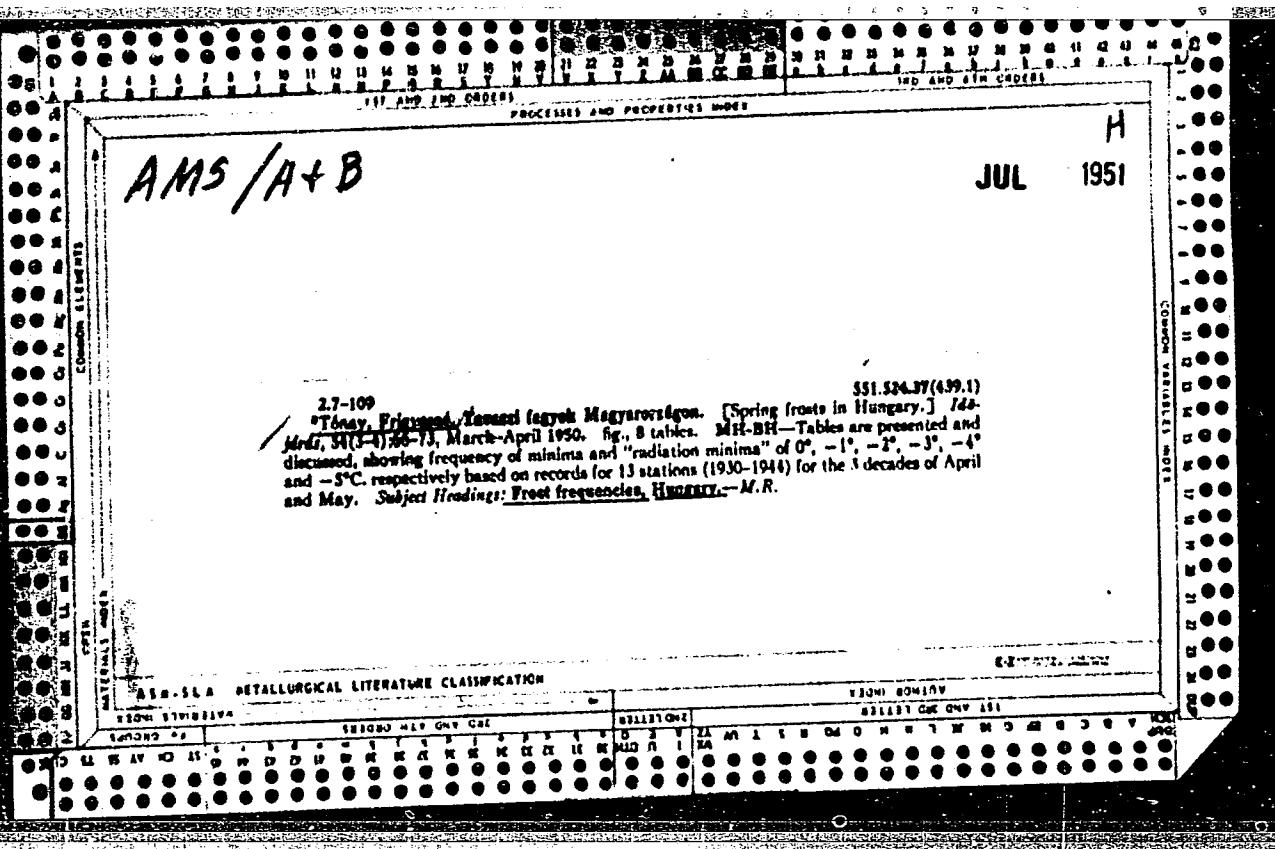
9/

2

(1) GSO

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Vol. 4 No. 3
March 1953
Part 2
Bibliography On Frost Forecasting.

✓ 4C-300 ✓ 531.524.37(139.1)
"Tonay, Erkényi. Tavaszi fagyok Magyarországon. [Spring frosts in Hungary.] Időjárás, 54(3/4):66-73, March/April 1950. fig., 8 tables. MH-BH—Tables are presented and discussed, showing frequency of minima and "radiation minima" of 0°, -1°, -2°, -3°, -4° and -5°, respectively, based on records for 13 stations (1930-1944) for the 3 decades of April and May. (Same item as 2.7-109, July 1951, M.A.B.) Subject Headings: 1. Frost frequencies 2. Frost intensity 3. Spring frosts 4. Hungary.—M.R."



TONAYNE BAROS, Iren

Precipitation frequency of Buda and Pest. Orsz meteor int bez tud
kut 26:231-241 '62 (publ. '63).

ACC NR: AP6027390

SOURCE CODE: HU/0033/65/069/006/0358/0362

AUTHOR: Szakacsno, Farkas Amalia; Tomayno, Baros Iven

E E

B

ORG: none

TITLE: Areal distribution of precipitation in terms of daily and monthly quantity

SOURCE: Idojaras, v. 69, no. 6, 1965, 358-362

TOPIC TAGS: atmospheric precipitation, weather map

ABSTRACT: The daily and monthly precipitation amounts over the territory of Hungary were collected from all available sources and were analyzed to obtain information on the areal distribution. Maps were presented to illustrate this distribution and curves were derived to characterize the normal distribution. Mathematical operations such as square-root transformations were performed to obtain some generally applicable relationships. Some homogeneous fields were identified. Orig. art. has: 5 figures.

JPRS: 34,270

SUB CODE: 04 / SUBM DATE: none

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Card 1/1

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TONCA, E.

PINCOVESCHI, E.

RUMANIA

No degree given

No affiliation given

Bucharest, Studii si Cercetari de Metalurgie, No 3, 1962, pp 328-336.

"Study of Desulphurization of Iron Pyrites in Inert Media."

Co-authors:

TONCA, E.

PINCOVSCHI, E.; TONCA, E.

Desulfuration of pyrites in inert media. Studii cerc metalurgie 7
no.3: 329-336 '62.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220019-8

TONDEANU, V.

The Vlaicu glider. St. nr. Tech. Pn. Inv. no. 4142 - No. 162

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220019-8"

TONCEANU, V.

Conquerors. p. 3.
(ARIPILE PATRIEI. Vol. 3, no. 2, Feb. 1957. Fatherland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

Page 78

TONCEANU, V.

The path of fledgling falcons. p. 9.

Vol. 2, no. 1, Jan. 1956
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Bucuresti, Romania

Source: East European Accession List. Library of Congress.
Vol. 5, No. 3, August 1956

TONCEANU, V.

The secret of instructor Hintz. p. 12.
(Aripile Patriei, Vol. 3, No. 1. Jan 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (KEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

TONCEANU, V.

Winter, season for work with advanced model airplanes. p. 14.

Vol. 2, no. 2, Feb. 1956

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Source: East European Accession List. Library of Congress
Vol. 5, No. 3, August 1956

TONCEANU, V.

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The family of aviators grows constantly. p. 6. ARIPILE PATRIEI. (Asociatia Voluntara pentru Sprijinirea Aparari Patriei) Bucuresti.
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Vol. 2, no. 12, Dec. 1956
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MINOVICIUS, V.

Surname (in caps); Given Name

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica, No 4, 1961, pp 28-29.

Data: "The Gliders."

ZHUZE, V.P.; GOLUBKOV, A.V.; TONCHAROVA, Ye.V.; KOMAROVA, T.I.; SERGEYEVA,
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Electric properties of samarium sulfide. Fiz. tver. tela 6 no.1:
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TONCHEV, A.; GRADEV, St.

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1. Iz Okruzhnata bolnitsa, Burgas.
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TONCHEV, G.

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KOOPERATIVNO ZEMEDELIE, Sofiya, Vol. 11, no. 4, Apr. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,
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2. "New Organization of Labor in Livestock Raising at the
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3. "The Advantages Are Obvious from the Very Beginning."
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farm in Bulgov; pp. 12-13.

4. "Specialization and Concentration on Hog Raising in
State Farms," Vasil Lazarov of the "G. Dimitrov" (1st
(Agricultural State Research Institute); pp. 14-20.

5. "Joint Farming Farm of the Cooperative Farms in
Til'yezh," Borislav SVYAT'; pp. 21-24.

6. "The Possibilities for Producing More Lamb," Nikolay
Kozhevnikov, Nauchno-Prakticheskoe Selskogo Perekrestka,
Inspection, Novosibirsk; pp. 25-29.

7. "How Flows a Streamline for Concentrated Fodder," T.
Kore, Senior Zoologist, Oryug People's Council,
Kazakhstan; pp. 30-31.

8. "Particulars of Important Reserve for Strengthening the
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9. "The Time for Using Fodder Wipes," Stefan DIMITROV,
Junior Scientific Collaborator at the regional
livestock scientific research institute in Stara
Zagora; pp. 35-36.

— 1/1 —

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1. Nauchno-issledovatel'skiy institut energetiki, Sofiya.

KHADZHOV, Blagoi, inzh.; ZHEKOV, Zheko, inzh.; TORBOV, Tsvetan, inzh.;
TONCHEV, Ivan, inzh. khim.

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TONCHEV, Iv., inzh. khim; TORBOV, Tsvetan, inzh.; BELCHEV, K., inzh.

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(RADIATION INJURY blood) (BLOOD CELLS radiation eff)

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Pathomorphological examination of some organs in acute radiation sickness in dogs. Nauch. tr. vissh. med. inst. Sofia 39 no.7:151-155 '60.

1. Predstavena ot prof. Z. Mitsov, rukovoditel na Katedra "22".

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Peripheral blood changes in acute radiation sickness in dogs treated with cysteine or with sour milk diets. Nauch. tr. vissh. med. inst. Sofia 39 no.7:115-118 '60.

1. Predstavena ot prof. Z. Mitsov, rukovoditel na Katedra "22".

(RADIATION INJURY blood) (CYSTEINE pharmacol)
(MILK nutrition & diets)

DIMITROV, L.; TONCHEV, Khr.; CHOBANOVA, D.

Studies on the effect of small doses of beta- and gamma-rays. Nauch.
tr. vissh. med. inst. Sofia 39 no.7:19-28 '60.

1. Predstavena ot prof. Z Mitsov, rukovoditel na Katedra "22".

(RADIATION EFFECTS exper)

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1. Predstavena ot prof. Z. Mitsov, rukovoditel na Katedra "22".

(RADIATION PROTECTION exper)
(MERCAPTOETHYLAMINES pharmacol)

VLADIMIROV, Vl.; DIMITROV, L.; TONCHEV, Khr.

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Suvrem. med., Sofia 10 no.1:41-51 1959.

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(ROENTGEN RAYS, effects,
on blood calcium & potassium, ECG & other factors in dogs(Bul))
(CALCIUM, in blood,
eff. of x-rays in dogs (Bul))
(POTASSIUM, in blood
same)
(ELECTROCARDIOGRAPHY,
same)

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p.21 (Stroitelstvo, Vol. 5, no. 1, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

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tekhn.; TSEKOV, Kiril Kh., tekhn.

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the clay brick holes. Ratsionalizatsiia no.8:28-31 '62.

TONCHEV, L.

"Affect of the form and method of preparing the clay layers for tiles on the quality and defects of the production."

p.15 (Stroitelstvo, Vol. 5, no. 3, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

TONCHEV, L.; TONCHEV, K.

"Construction of mouthpieces and characteristics in forming ceramic materials
for construction."

STROITELSTVO: Vol. 6, No. 4, 1959; Sofia, Bulgaria

Monthly list of EAST EUROPEAN ACQUISITIONS INDEX (EEAI), Library of Congress,
Vol. 8, No. 8, August, 1959

Unclassified

Country	:	Bulgaria	H-13
Category	:		
Abs. Jour.	:		46529
Author	:	Tonchev, L.	
Institut.	:		
Title	:	Mechanization in the Production of Ceramic Building Materials	
Orig. Pub.	:	Stroitel'stvo, 1957, 4, No 11, 13-15	
Abstract	:	No abstract.	

Card:

TONCHEV, Lozyu, inzh.

Manufacturing tiles in Bulgaria. Stroi.mat. 5 no.2:36-37
F '59. (MIRA 12:2)
(Bulgaria--Tiles)

BULGARIA/Chemical Technology - Chemical Products and Their
Application. Ceramics. Glass. Binding Materials.
Concretes.

H-13

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 58137
Author : Tonchev Lozyu
Inst :
Title : Steam Moistening of Clay Masses During the Production
of Ceramic Construction Materials.
Orig Pub : Stroitelstvo, 1958, 5, No 1, 21-26.
Abstract : No abstract.

Card 1/1

KARAMISHEV, I.; TONCHEV, P.; PASHOV, M.

A case of cardiac wound and of chronic adhesive pericarditis.
Khirurgiia, Sofia 14 no.2/3:233-235 '61.

1. Khirurgichno otdelenie pri Okruzhnata bolnitsa, Pleven.

(HEART wds & inj) (PERICARDITIS case reports)

BULGARIA / Farm Animals, General Problems

Q-1

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7124

Author : Tonchev, Petrakiyeva

Inst : Not given

Title : To Give More Green Fodder

Orig Pub: Kooperat, zemledeliye, 1957, No 4, 22-23

Abstract: No abstract.

Card 1/1

TONEV St.

BULGARIA / Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, No. 34517

Author : Tonev, St.

Inst : Not given

Title : Industrial Properties of Kremikov Iron Ore Deposits.
Results of Geological Surveys

Orig Pub : Minno Dolo, 1958, 13, No 3, 65-80

Abstract : The ores from the Kremikov deposit consist of limonite,
siderite and hematite. Mn, Sn, Cu and Ba are present in
the ores, as useful admixtures. The chemical composition
of different ore variants is given. -- T. Kozintseva

Card 1/1

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TONCHEV, T.

A. S. Popov's Work. Radio Engineering, #5:3:May 55

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756220019-8"

TONCHEV, T.

A. S. Popov's work. p. 3. RADIO. (Ministerstvo na poshitito, telegrafite telefonite i radioto i Tsentralnija suvet na dobrovolnata organizatsia za sudeistvie na otbranata) Sofiya. Vol. 4 no. 5, 1955

SOURCE: East European Accessions List, (REAL), Library of Congress
Vol. 4, No. 12, December 1955

TONCHEV, T.

Design of A. S. Popov's receiver. p. 5. RADIO. (Ministerstvo na poshtite,
telegrafite, telefonite i radioto i Tsentralniia suvet na dobrovolnata
organizatsiia za sudeistvie na otbranata) Sofiya. Vol. 4, no. 5, 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress
Vol. 4, no. 12, December 1955

TONCHEV, T., inzh.

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TONCHEV, T.A.; BAMBALOV, G.K.

A new fermentation tube. Mikrobiologija 32 no.6:1095-1096
N-D '63 (MIRA 18:1)

1. Vysshiy institut pishchevoy i vkusovoy promyshlennosti,
Plovdiv, Bolgariya.

COUNTRY	:	BULGARIA
CATEGORY	:	
AES. JOUR.	:	FZhBiol., No. 3 1959, No. 10109
AUTHOR	:	Popov Ivan D., Georgiyev Ivan K., Tonchev, T. A. *
INST.	:	Institute of Biology of the Bulgarian Academy of Sciences
TITLE	:	The Acceleration of Maturation of Young Wine of the Dymyat Variety by the Biologic Method
ORIG. PUB.	:	Izv. In-ta biol. B'lg. AN, 1957, 8, 207-221
ABSTRACT	:	* Manchev, S. Use of a fermenting preparation of <u>Botrytis cinerea</u> made it possible to obtain wine of a higher quality in a number of characteristics, chiefly in its clarity.

Card: 1/1

TONCHEV, Toncho, inzh.

Realization of the builders in transportation and communication.
Tekh delo 482:4 13 J1 '63.

1. Nachalnik na otdel "Tekhnicheski" pri Upravlenie na
stroitelstvoto po transporta i saobshteniata.

TONCHEV, T., inzh.

Bulgarian electronic devices. Mashinostroene 11 no.7/8:50-51 J1-Ag
'62.

BULGARIA/Chemical Technology - Chemical Products and Their Application. Fermentation Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26768
Author : Tonchev T.A., Manchev Khr.
Inst : -
Title : Directed Alteration of Yeast.
Orig Pub : Lozarstvo i vinarstvo, 1957, 6, No 4, 34-37

Abstract : As a result of systematic reinoculation of yeast culture on a medium containing 30% sugar there has been developed, in 390 days, a strain which ferments, under pilot-plant conditions, a must containing 35% sugar, and produces a high content of alcohol (17-18% by volume). In this manner it is possible to produce strong and dessert wines, without addition of alcohol, of smooth flavor with well assimilated alcohol. Spores of this yeast retain the capacity of fermenting high-sugar must.

Card 1/1

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BULGARIA/Chemical Technology - Chemical Products and Their Application. Fermenting Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59004
Author : Popov Ivan D, Georgiev Ivan K, Tonchev T A, Manchev S
Inst :
Title : Speeding-Up the Ripening Process of Young Wine of the Dimyat Type by a Biological Method.
Orig Pub : Izv. in-ta biol. Bulg. AN, 1957, 8, 207-221

Abstract : In semi-factory conditions, the possibility was studied of the utilization of the preparation Botrytis cinerea (see RZhKhim, 1957, 6527) for speeding-up the process of ripening and aging of young wine of the Dimyat type. The introduction into the wine of 0.75 g/l of a dry preparation significantly increases the content of amine nitrogen, lowers the quantity of colloids, does not change the hydrolysing activity of the esterase, increases its synthesis activity and the activity of

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BULGARIA/Chemical Technology - Chemical Products and Their
Application. Fermenting Industry.

H-27

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59004

the catalase. The general grade of the processed wine according to the Prostoserdov 10-mark system is 8.49 marks. The useful activity of the preparation begins to appear in the course of the third month.

Card 2/2

TONCHEV, TS.

Quick method for testing Walschaert's steam-distributor device. p. 24.

TRANSPORTNO DELO. Vol. 8, no. 2, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

SPIROV, M.; TONCHEV, G.; GEORGIEVA, R.

New tendencies in complex therapy of pulmonary tuberculosis.
Suvrem. med., Sofia 5 no.8:52-61 1954.

I. Iz Durzhavniia detski sanatorium, gr. Triavna. Gl. lekar:
I.Vuglenov.
(TUBERCULOSIS, PULMONARY, therapy)

TONCHEV, Khr.

Clinical picture and treatment of organic phosphate poisoning.
Svvr. med. (Sofia) 16 no.2:115-121 '65.

J. VMI, Sofia, Katedra po farmakologija i toksikologija
(rukovoditel: prof. D. Paskov).

БУЛГАРИЯ, 1957

Bulgaria/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6527

Author: Georgiyev, Iv.; Popov, Iv.; Tonchev, T. A.; Manchev, Stamat Khr.

Institution: None

Title: Use of Enzymatic Preparation from Botrytis cinerea to Accelerate Maturation of Wine

Original

Publication: Nauch. tr. Viss. in-t khranit. i vkus. prom-st Plovdiv, 1955, 2, 91-102

Abstract: On treatment of two specimens of table wine and one of dessert wine with the enzymatic preparation from Botrytis cinerea (1 g per 1 liter), there was observed, after 170 days, a considerable improvement in the quality of the wine, in comparison with the controls.

Card 1/1

NADZHAKOV, G., akad.; VASILEV, V.; TONCHEVA, L.

Changes in the work function caused by its warming up
in the air. Doklady BAN 16 no. 4: 349-352 '63.

1. Chlen redaktsionnoy kollegii, "Doklady Bolgarskoy
Akademii nauk".

L 18085-66 EWP(t) LJP(c) DS/JD
ACC NR: AF6010172

SOURCE CODE: DU/0011/65/018/008/0727/0729

37

AUTHOR: Kasabov, J.; Toncheva, L.

ORG: Institute of Physics, Bulgarian Academy of Sciences

TITLE: Diffusion distribution of phosphorus in silicon at low surface concentration

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 8, 1965, 727-729

TOPIC TAGS: silicon, phosphorus, nitrogen, Gaussian distribution

ABSTRACT:

A new method of producing n-type diffusion layers in silicon at a low surface concentration of phosphorus was recently proposed (J. Kasabov, K. Kolentsov, L. Toncheva, Compt. rend. Acad. bulg. Sci., 17, 1964, No 11, 993). Subsequent investigations of the phosphorus distribution within the diffusion layer indicated an approximately exponential behavior (J. Kasabov, L. Toncheva, Ibid., 17, 1964, No 11, 995) which did not agree with theoretical prediction. The present article describes further studies (using the same experimental approach) searching for the causes of the above mentioned disagreement. Diffusion carried out in nitrogen atmosphere agreed well with a Gaussian distribution with a diffusion coefficient of $1.34 \cdot 10^{-12} \text{ cm}^2/\text{sec}$. All results point to the fact that during the diffusion in nitrogen the phosphorus atoms deposited at an earlier stage do subsequently evaporate. This paper was presented by Academician G. Nadjakov on April 14, 1965.

Orig. art. has: 3 figures. [JPRS]

SUB CODE: 20, 07 / SUBM DATE: 14Apr65 / ORIG REF: 002 / OTH REF: 002

Card 1/1 TS

2

TONCHEVA, P.

Preparation of chloramine derivatives in Bulgaria. Farmatsiya,
Sofia 5 no.2:22-25 Mar-Apr 55.

1. Ml. nauchen sutrudnik v NIIF.
(SULFONAMIDES, preparation of,
chloramine B, chloramine T, dichloramine B & dichlor-
amine T)

KASABOV, J. [Kasabov, I.]; KOLENTSOV, K.; TONCHEVA, L.

New method for phosphorus diffusion in silicon at low surface concentration. Deklady BAN 17 no.11:993-994 '64.

1. Institute of Physics of the Bulgarian Academy of Sciences.
Submitted July 3, 1964.

KASABOV, J. [Kasabov, I.]; TONGHEVA, L.

On the diffusion distribution of phosphorus in silicon at low
surface concentration. Deklady BAN 17 no.11:995-996 '64.

1. Institute of Physics of the Bulgarian Academy of Sciences.
Submitted July 3, 1964.

TONCHIEV, A. V.

PA 30T8

USSR/Chemistry - Fluorine
Chemistry - Polymerization

Oct. 1947

"The Fusion of Fluorine in Polymerization Reactions,"
A. V. Tonchiesh, Ya. M. Paushkin, 10 pp

"Neftyanoye Khozyaystvo" No 10

Chemical discussion of the fusion of boron fluoride
in the synthesis of low molecular polymers, high
molecular hydrocarbons and lubricating oil.

IC

30T8

TONCHIYEV, A.V.; ANDRIANOV, K.A.

Principles of nomenclature and classification of low molecular weight
silicon organic compounds. Izv. AN SSSR Otd. khim. nauk no. 3:490-497 My-
Je '53.

(Silicon organic compounds) (Chemistry--Nomenclature) (MLRA 6:8)

FORETIC, Vinko; TONCIC, Stjepan

2 Cases of neurinoma of the parapharyngeal region. Med. pregl.
17 no.9:491-494 '64

1. Odeljenje za bolesti uha, nosa i grla Armijске bolnice,
Zagreb (Nacelnik: Sanitetski pukovnik dr. Tugomir Srem).

PLOTNIKOV, Ya.Ya., inzh.; RADKEVICH, V.T., inzh.; TONDEL', A.I., inzh.;
KHINEVICH, B.E., inzh.

New continuous trench digger for open-cut drainage. Stroi. i dor.
mash. 10 no.3:4-6 Mr '65. (MIRA 18:5)

TONDEL', A. I., inzh.

The new D-509 wheel-type cutting snowplough. Stroi. i dor. mashinnostr. 5 no.8:22-24 Ag '60. (MIRA 13:8)
(Snow plows)

TONDIY, L.D.

Detection of increased arterial pressure as indication of hypertension among the rural population of one of the districts of Poltava Province. Vrach. delo no. 5:134-135 My '62. (MIRA 15:6)

1. Chernukhinskaya rayonnaya bol'nitsa Poltavskoy oblasti.
(POLTAVA PROVINCE--HYPERTENSION)

TONDIY, O.O.

Use of a vacuum extractor in obtaining uterine mucosa for diagnostic purposes and carrying out an abortion. Ped. Akush. i gin. 24 no.6:47-48 '62. (MIRA 17:4)

1. Chernoushevskaya rayonnaya bol'nitsa (glavnnyy vrach S.S. Pavlenko) Chernoushevskogo rayona Poltavskoy oblasti.

ACC NR: AP6036347 SOURCE CODE: CZ/0090/66/000/005/0576/0588

AUTHOR: Tondl, Ales (Doctor; Master of sciences; Ph. D.)

ORG: National Research Institute for Machine Design, Bechovice near Prague

TITLE: A method of solving stability "in the large" with the aid of analog computers

SOURCE: CSAV. Acta technica, no. 5, 1966, 576-588

TOPIC TAGS: analog computer, oscillation, nonlinear oscillation, stationary oscillation

ABSTRACT: A method is described for the use of an analog computer for the solution of stability problems "in the large." With the aid of a graph plotter, it has been possible to trace directly even unstable limit cycles for systems capable of self-excited oscillation and thus to divide regions of initial conditions into regions leading to different stationary solutions. Problems concerning forced nonlinear oscillations can also be solved in the same manner for cases where a multivalued stable solution with various amplitudes corresponds to a particular value of the excitation frequency and where regions are sought for initial condi-

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ACC NR: AP6036347

tions leading to stationary oscillations of one or the other amplitude. Direct plots of boundary trajectories, also called separatrices, in the plane of initial conditions or of values derived from them can be made. For the sake of simplicity, the exposition and examples are confined to systems with a single degree of freedom. The method however, can be applied to more complicated systems. Orig. art. has: 16 figures and 15 formulas. [Based on author's abstract] [KS]

SUB CODE: 09/ SUBM DATE: 28May66/ OTH REF: 003/

Card 2/2

TONDL, Ales, Ing.Dr., Kand. der techn. Wissenschaften

Effect of the internal dry friction and the external nonlinear
friction on the movement and stability of the rotors. Acta tech
Cz 5 no.4:330-352 '60. (EEAI 9:10)

1. Staatl. Forschungsanstalt fur Warmatechnik, Praha-Pankrac
(Rotors) (Friction)

23678
Z/041/61/000/004/001/001
E073/E535

26.2120

AUTHOR: Tondl, Aleš, Doctor Engineer Candidate of Technical Sciences

TITLE: Stability of motion of an unbalanced rotor of a turbo-generator on elastic supports with torque loads

PERIODICAL: Strojnický časopis, 1961, No.4, pp.196-217

TEXT: The author presents an analysis of the stability of motion of a simplified analogue of the dynamic system of a turbo-generator. In the solution attention is paid to the most important factors of the dynamic system, i.e. the rigidity of the rotor, the elasticity of the bearings, torsional rigidity of the shaft, unbalance of the rotor and torque load on the rotor, particularly the effect of the synchronous torque on the rotor of the generator. The influence of the coupling between torsional and bending oscillations on the stability of motion was the subject of an earlier paper in which the influence of torque loads was not considered (Ref.1: Izv. AN SSSR, OTN, 1957, No.4). The rotors of the turbine and the generator are substituted by a simplified system in which the mass of the turbine rotor m_1 and

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Stability of motion of an ...

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of the alternator m_2 are lumped in discs on a massless elastic shaft, whereby the polar moments of inertia of the rotors of the turbine $m_1 r_1^2$ and of the alternator $m_2 r_2^2$ are conserved (r_1 and r_2 being the inertia radii). The bending rigidity of the shaft of the entire system is expressed by means of rigidity coefficients c_{11} , c_{12} , c_{22} which are obtained as follows: at the location of the discs further bearing supports are introduced and the coefficient c_{jk} ($j,k = 1,2$) will be the force acting at the j -th disc for a unit deflection of the support at the k -th disc, $c_{12} = c_{21}$. The rigidity coefficients will be different in the horizontal and in the vertical directions. The unbalance of the two rotors is expressed by means of the eccentricity of the centre of gravity of the discs ϵ_1 and ϵ_2 . The axial planes of the centres of gravity of the two discs are assumed to be at an angle β relative to each other. It is furthermore assumed that the rotor rotates with an average speed ω , whereby $\omega/2\pi = 50$ c.p.s. The instantaneous angles of rotation relative to a fixed direction are φ_T for the turbine and φ_G for the alternator disc. A

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Stability of motion of an ...

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driving torque M_o acts on the turbine and it is assumed that this torque can be expressed as a function of the angular velocity $M_o = M_o(\dot{\phi}_T)$. Furthermore, torques caused by ventilation losses and friction losses in the bearings will act on the rotors of the turbine and the alternator. These depend primarily on the angular velocity of the rotors and can be expressed as functions of $M_1(\dot{\phi}_T)$ and $M_2(\dot{\phi}_G)$. Furthermore, the rotor of the alternator is loaded by the synchronization torque which depends on the difference between the angle of the alternator and the electrical angle of the power system, i.e. $M_s = M_s(\phi_G - \omega t)$. By means of the Lagrange equations, the differential equations of motion are obtained expressing the kinetic energy T , the potential energy V , the dissipative energy W , the forces and torques Q_x , Q_{x_1} , Q_{ϕ_1} , Q_{ϕ_2} . The equations derived in the first part indicate that the forced oscillations will depend on the mutual location of the eccentricities of the two discs, i.e. the angle β . The solution of the stability of motion leads to a system of

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differential equations with periodically varying coefficients. The instability ranges are determined by means of an original method developed by the author and described in earlier work (Ref.2: "Method of determining the ranges of instability of quasi-harmonic systems". Aplikace matematiky, 1959, No.4). The advantage of this method is that it permits approximate determination of the instability range in a general form by means of relatively simple relations. The analysis shows that, in absence of adequate damping, the coupling of bending and torsion oscillations may lead to speed ranges in which the oscillations from the residual unbalance of the turbine rotor and the alternator rotor cause instability. If Ω_k is the resonance frequency of the bending oscillations of the rotor of the entire system and Ω_j is the resonance frequency of the torsional oscillations (they are greatly affected by the synchronization torque), the ranges of instability will be in the speed range:

$$\omega_o = |\Omega_k \pm \Omega_j|; \quad \omega_o = 2\Omega_j.$$

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The breadth of that range will depend on the magnitude of the residual unbalances of the rotors of the turbine and the alternator and also on their mutual angular position. The most unfavourable case is if the unbalance of the turbine rotor is shifted by 90° relative to the unbalance of the alternator rotor. The results show that it is imperative to balance the turbine and the alternator as perfectly as possible and also that difficulties caused by instability may be eliminated by angular displacement of the alternator and the turbine relative to each other. There are 9 figures and 5 references: all Soviet-bloc.

ASSOCIATION: Státní výzkumný ústav tepelné techniky, Praha
(State Research Institute for Thermal Engineering,
Prague) *X*

SUBMITTED: March 7, 1960

Card 5/5

ACC NR: AP6033019

SOURCE CODE: CZ/0032/66/016/007/0486/0490

AUTHOR: Tondl, A. (Docent, Engineer, Doctor, Candidate of sciences)

ORG: State Research Institute for Machine Building, Bechovice (Statni vyzkumni ustav pro starbu stroju)

TITLE: Dynamics of rotors on gas bearings

SOURCE: Strojirenstvi, v. 16, no. 7, 1966, 486-490

TOPIC TAGS: compressor rotor, air lubricated bearing, gas lubricated bearing, mechanical vibration, structure dynamic stability

ABSTRACT: Bearings lubricated by gas or air are applied chiefly in turbocompressors where oil lubrication is not desirable or in those employed in nuclear engineering, also in high-frequency electric motors attached directly to compressor axles. One of their defects, however, is self-excited vibration. Both resonance and self-excited vibration were investigated experimentally with rigid and with elastic rotors on symmetrical and unsymmetrical bearings, with rotors of various weights, and moments of inertia, also under various load distribution. It was found that gas bearings have less critical revolutions, but this depends more on the gas injection pressure than on bearing dimensions and tolerances or number of lubricating jets. Gas bearings show larger vibration amplitudes than oil bearings, particularly in rigid rotors, and also

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ACC NR: AP6033019

second order resonance at larger amplitudes under half the critical number of revolutions. Even in aerostatic bearings there is considerable self-excited vibration, almost equalling that in the rotor itself. Pneumatic vibration, or "air hammer," occurs only in aerostatic bearings and its frequency approaches that of the rotor. Each of these findings is explained in some detail, and the testing equipment is described as a smooth shaft 60 mm in diameter, weighing 7.4 kg, rotating in bearings 252 mm apart and driven by a high-frequency motor at a maximum of $25,000 \text{ rpm}^{-1}$. The elastic rotor had the same diameter, but weighed 41 kg and revolved in bearings 1510 mm apart. Bearings were cylindrical with a composition lining and eight pockets into each of which a jet of air was injected under a maximum of 6 kg-f/cm^2 . A Tesla capacity indicator was used and the vibrations were filmed. The paper was presented by Professor, Engineer A. Vrba. Orig. art. has: 13 formulas and 7 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG. REF. 001/ OTH REF: 005

Card 2/2

TONDL, Ales, dr., inz., C.Sc.

Contribution to the analysis of internal damping of a rotor
on resiliently mounted foundation. Stroj cas 13 no.2:171-192
'62.

1. Statni vyzkumny ustav tepelne techniky, Praha.

TONDL, Ales, dr., inz., C.Sc.

Some results of experimental investigation of the motion of a
rotor mounted on resilient frame. Stroj cas 13 no.1:5-25 '62.

1. Statni vyzkumny ustav tepelne techniky, Praha.

TONDL, A., dr., inz., C.Sc.

"Asymptotic method of calculating the bending vibrations of
rotating machine shafts" by V.A. Grobov. Reviewed by A. Tondl.
Stroj cas 14 no.1:89 '63.

TONDL, Ales

Analysis of resonance vibrations of nonlinear systems with two
degrees of freedom. Rozpravy techn. CSAV 74 no.8:1-82 '64

Tondl, Ales

"Kmitanie rotorov s nerovnakou tuhostou hriadeľa. Právoslava, Vydavatelstvo Slovenskej akademie vied. /Vibration of rotors with unequal stiffness of the shaft. English, German, and Russian summaries. illus., bibl., footnotes, graphs/

p. 115 (Czechoslovakia, 1958)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No.6, June 1958

TOMOL, A

"A method for determining instability domains in quasi-harmonic systems."

APLIKACE MATEMATIKY, Praha, Czechoslovakia, Vol. 4, no. 4, 1959

Monthly list of East Europe Accessions (EEA), LC, Vol. 8, No. 6, Sept 59
Unclassified

TINOL, A.

Subharmonic resonance of the rotor with nonlinear characteristic of supports.

p. 379 (Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. Studii Si Cercetari De Mecanica Aplicata. Vol. 8, no. 2, 1957. Bucuresti, Romania)

Monthly Index of East European Accessions (FEAI) LC. Vol. 7, no. 2,
February 1958

TONDL, A.

On the combination resonance of a nonlinear system with
two degrees of freedom. Rev mecanique appl 8 no. 4: 573-588
1963.

1. National Research Institute of Heat Engineering, Prague.